

# **Direct Carbon Fuel Cell Workshop**

**July 30, 2003**

**NETL**

**Pittsburgh, PA**

# **Workshop Objectives**

- **Update DOE management on the technical status of Direct Carbon Fuel Cells**
- **Identify the key R&D and market challenges that must be overcome to allow ultimate commercial success**

# **DCFC Workshop Topics**

- **Electrochemistry**
- **Fuel Cells**
- **Fuel Property Requirements**
- **Market Applications**

# **Presentation Time Rules**

- **Total Allowed Time-20 minutes per presentation**
  - 15 minutes for presentation
  - 5 minutes for questions
- **Enforcement**
  - **Absolute Termination of Presentation After 20 Minutes**

# **Workshop Output**

- **Prioritized set of 2-4 recommendations for R&D in each of the four topic areas**
  - **Electrochemistry**
    - **Reaction mechanisms, materials**
  - **Fuel cell design and demonstration**
    - **Materials, size, scale-up**
  - **Fuel properties**
    - **Impurity levels, cost**
  - **Market Applications**
    - **Size, cost**

# **Process for Developing R&D Recommendations**

- **Break into 3 groups for discussion**
  - 30 minutes
- **Each group report back with prioritized list**
  - each report 5 minutes, total 15 minutes
- **Final prioritization by entire group**
  - 15 minutes